

Western N.S.W. & Victoria, South-eastern South Australia. [Plant specimens determined by Nancy Barbridge].

- 26/11/45. 66288. Grassland. Brachyoxama, Prasichulus (n).  
 294 Mass. 297. Moll. Blake. Stuart. 300. Moll Blake  
 Stuart. Phaul. Brachy. Prasichulus. 302. Binalong  
 Moll. 306. Blake, moll, elacophora, dunes, virgin &  
 cleared. Crypto. 311. Moll. in depression. Cruciat,  
Brachy. Pras. 317. Binalong 318. Moll Blake. in  
 depression. 328. Moll Blake canal, in depression.  
 337. Murrumburrah 340. Moll  
 Blake. Cruciat Chot. 344. Moll Blake albus.  
 350. Blake. Chot. 361. Castamunda.  
 362. Castamunda. 364. Blake macror. Callitric  
 caecata on hill. Chot., Cruc. 369. Cumgegong  
 Creek. Moll. Blake. Chot. 373. Sideroxylon  
 macror. Cruc. frater. Small shrubs. 377. Bethungra  
 (albus - moll. - Blake gives way to Woollesciana - C. f.  
 rather abruptly about here) 379. Woollesciana. Cruc.  
Pycnostictus sp. (n), Brachyoxama,  
Brachy. 385. Illabo. 386. Cleared from Wool. Callitric  
Cruc. Chot. 392. Cleared from albus. 396. Junce.  
 397. Leane junce. 405. Cleared from moll. 414.  
 Marrar. 415. Cleared from moll (?). Cruc. 423. Coolamon.  
 425. C. glauca & Woolles, partly cleared. Cruc.



66433. Gannam. 435. Cleared from null. Wool.  
~~A. pusilla~~ *Austroicetes interioris*, *Brachysarna*,  
*C. glauca*, Cruc. 445. Partly cleared from null,  
Wool, Wool, C. glauca, Acacia sp. Cassia sp.  
<sup>Genus nov. 10(?)</sup> "Brachytoma", *A. cruciata*, *Chortroicetes*, ~~A. pusilla~~, *Elephantus* (n),  
Occurrence of new genus may be related to hopof,  
*Austroicetes interioris*  
which is now extremely flat. 452. Myall on  
sun brown soil. Cruc. Young nymphs of *Moraba*  
sp. 463. Narrandera.  
28/11/45. 463. Narrandera. <sup>8 am</sup> *A. cruciata*  
large nos. of A. cruciata,  
mainly females, were concentrated in the  
vicinity of road light, particularly the brighter  
lights of intersections, and numerous crushed  
ones were on the road immediately beneath  
the lights. These flies had apparently drifted  
in the previous night, which was hot, & been  
attracted to the light. 469. Partly cleared from  
*A. cruciata*, *A. pusilla*, "Brachytoma" (Genus nov. 10(?))  
canald. heavy soil, sun in places. 478. Upanco.  
~~A. pusilla~~ *Austroicetes interioris*  
480. Popul. *C. glauca* in unmated bad Cruc.  
*A. cruciata*, "Brachytoma" (Genus nov. 10?)  
482. Lecton. 488. Cleared from pop. Hebe obundant.  
*A. cruciata*, "Brachytoma" (Genus nov. 10?)  
<sup>Tapesta</sup>  
Creeping saltbush. 496. Cleared from pop. 497. Whitton  
<sup>Genus nov. 7(?)</sup>  
506. Bicolor. Cruc. 513 Darlington Pt. 517. Bicolor. Cruc.  
*A. cruciata*, "Brachytoma" (10?)  
*A. cruciata*, "Brachytoma" (Genus nov. 10?)  
528. Bic. 539. Hakea ridge in bicolor ass. up to  
here there has been a steady increase in nos. of



cruc. & in size, & degree of frequency & intensity  
of yellow in males. Yet population here would  
certainly not be called swarming 66552. Margin  
of large sea ls - originally *C. glauca* - Hakea (?). Cruc  
in densities a little below "loose swarm". This is  
clearly the dominant grasshopper in this climate.

*A. cruciata*, *Perilytrana rana* (n), "*Brachytrana*" *Leu. nov. 7* (?)

564. Mod. sm. brown soil. Grassland. Cruc not so  
numerous. 575. Grassland. Much creeping saltmarsh  
*terniifera*

*A. cruciata*, *Perilytrana rana* (n), *Chorticoetes*

Chort. 588. Hay.

*A. cruciata*,  
*Perilytrana rana* (n)

*Perilytrana rana*.

29/11. 589. Hay. 592. Bicolor. 601 Grassland with

creeping & very small shrubby spp. of *Atriplex* very  
numerous. Cruc, Chort. 612. *A. ves. azon.* on

*Perilytrana rana* (n)

strongly in gl. soil. Saltmarshes almost all dead.  
Few nymphs among living old man saltmarsh.

Cruc. infrequent. 619. Maude - Oxley fork. 623. Maude

Cruc. *Perilytrana* (n). Bicolor. 627. Maude - Oxley fork.

Annual saltmarshes & *Kochia*s. *Vitraria* (?) hummocks.

Cruc. *Perilytrana* (n). Tettigoniid on "Vitraria". 637.

Sparsely saltmarsh & *Vitraria*. Cruc. *Perilytrana* (n).

Since Hay, when *cruciata* has been less numerous,

males have been smaller & less yellow. 646. Old

*Perilytrana rana*  
man saltmarsh. Pale grey. mod. n. soil. Cruc (rare).



Chortocetes (2)

6651. Oxley. 654. *Nitrania humilis* on extensive sandy area (*Kochia* assn?) Cruc. rare. 666 *Kochia* *A. cruciata*, *A. arida* *pyramidata*. 676. Community? Now grasses, *ammals* & *Scirpus*. Sandy soil. Cruc. 686. Mallee, *A. frater*, *Urtica guttulosa* some *Triodia*. Cruc. on open flat. 689. Margin of lake. Chort. 697. Mallee. Samples of 2 spp. 709. Balranald.

30/11. 710. Balranald. 714. Partly cleared from mallee, some *Nitrania*. Cruc. 728. Oxley-Dunholme fork. *A. cruciata* 733. Bicolor in strongly sun depression with scattered *A. humilis* + *K. pyramidata*. Chort.

745. Bon Creek Tank. Missed around a bit looking for turn off. Left turn off at 756. 763. Murrumbidgee Sta. 769. Mallee, *goran*, *hakea*, *K. pyram.* on sandy brown soil. Chort. 775. Mallee with large *Azelota* sp. dense *Triodia* *inibans*. *Azelota* <sup>sp.</sup> in *Triodia*. 798. *Chortocetes*, *A. cruciata*, *A. arida*

Cas. - Hetero. *Typaya* - strong flies. 801. Turlee. 813. *Urtica guttulosa* Open mallee. 830. Very small mallee (ca. left.) with dense *Triodia*. Very sandy. Sample of mallee. *Urtica* 880. Glenferrie.

2/12 Mildura to Renmark via east. bridge & return via Murray Valley Highway. 903. Mildura, 908



*A. cruciata*

- Hard sandy rise cleared from pine, Myoporum(?), Cas.,  
small *Hakea*. Surface eroded. Chart 66924. Wentworth.  
~~2 spp.~~ 2 new brachypterous genera, very small (Genus nov. 5?, Genus  
916. Succulent shrublet (1ft.) (sample), *Mesembryanthemum*  
nov. 6?) [*Pachycornia* <sup>"*triaandra*"</sup>]  
+ *Atriplex spongiosa* on pale slightly silty  
loam. 940. Rise with *K. pyramidata* on slopes  
*Urtica guttulosa*, *A. frater*, *Tapesta*  
leading through pine to bush. Very sandy. *Bassia*,  
[*K. pyramidata*?]  
*Helichrysum*, *Stipa*, etc. 973. Specimens *K. pyramidata*  
✓ [*Pachycornia*]  
975b. ~~*Salicornia*~~ + *A. spongiosa* on heavy soil. No  
[*K. sedifolia*] (specimen)  
*Acridids*. 975. *K. pyramidata* + *K. sedifolia* on  
sandy soil. *A. spongiosa*, fair amt. Grass. Only  
very few nymphs - possibly Chart. 989 Enter S.A.  
995. *Bicolor*, *Canol.* *Acacia* <sup>*stenophylla*</sup>. Flooded  
country on pale silt loam. No *Acridids* 67014.  
*Urtica guttulosa* (2)  
Sandhill with small *Hakea* & *Acacia*,  
shrubby annual *Kochia*s, annual *Atriplex*  
& *Bassia*. 024. Remark. 042. Open mallee  
*A. frater*, *A. arida*, *A. cruciata*  
Sample. *frater* not so closely confined to  
neighbourhood of trees as in other areas.  
7115. Mildura. [*Cruciata*, 107, 12, seen at  
Museum Research Station, collected at Museum  
by J. Mickster.].  
4/12. 7136. Mildura. 149. Cleared from mallee, bush,



Defects - Bonnet, accelerator, battery, inlet to extra tank, handbrake, back brake linings, dash-board, steering

future trips - old iron forms, provisions for fuel & maintenance

*Myoporum* sp. (specimen) [M. platycarpum]

*Eremophila* Duttoni, numerous shrubs of  
Cassia, Acacia, Hakea & Dodonaea. No. 175 of  
Moussier on shrubs. Founding *Aspidistra*.

*Chortoceter*, *A. pinnata*, *Urtica guttulosa*,

67151. Mallee. 156. Mallee, cleared & uncleared.

*A. cruciata* [Euc. oleosa var. angustifolia, E. gracilis] *A. cruciata*

Specimens. 157. Carwarp. 165. Small mallee.

[*Eucalyptus leptophylla*, E. oleosa, ? E. anceps]

(specimens) with *Triodia irritans*, partly cleared.

176. Virgin mallee mainly small, & *T. irritans*.

[*C. glauca* (det. N.T.B.) - probably *C. verrucosa*]  
occasional *Callitris* with mallee (specimen)

*A. frater*, *A. arida*

186. Flat with scattered mallee. *Urtica* occ.

*Salicornia* sp. (specimen), *Mesembryanthemum*, a few grasses.

*A. frater*

196. Virgin small mallee, occ. small *Hakea*

( spp.), *Myoporum*, *C. verrucosa* (?). Much nearly

dead *Triodia irritans*. 208. Dwyer. 209 leave Dwyer.

*A. pinnata*, *A. frater*, *A. cruciata*, *A. arida*, [*C. propinqua*] *A. interioris*

210. Cleared from mallee & pine (specimen).

*A. frater*

*Urtica*, *Tapesta* (n.) 222 fairly small mallee,

cleared & uncleared. 230 Tempy, 234 Speed. 235.

*A. frater*

Mallee, cleared & uncleared. 247. Mallee. *frater*

*A. frater*

more numerous than at any site so far.

[Continued in next note book].



Field Trip No. 14 (ctd.)

67260. Open large mallee. Gunc. 268. Hope town.

*A. frater*

273. Clear from bushes or hollow. Gunc. 285.

*A. frater*

286. Mallee on low, cleared & uncleared.

*A. frater*

297. Mallee on cleared & uncleared. 307 (Warrack)

*A. cruciata*, *A. pusilla*, *A. frater* (*E. leucocylon*)

309. Bicolor - *leucocylon* (?) (specimen). Chab.

on a few miles N of Hope town as far as Warrack, as

mainly alternations of bicolor & mallee. *leucocylon*

in a few miles N. of Warrack. 321. Mallee

*A. frater*

mostly flat country with fairly heavy soil.

(Gunc.). Frater perhaps more numerous than

anywhere so far. 333. Dimboola. Between Warrack

Dimboola there is an extensive area of pure

mallee, also a large patch of grassland. 336.

*Chortocetes*, *A. pusilla*

area from bicolor & mallee on slightly sun th.

*A. frater*

345. Slightly thinned bicolor - bullock. 357.

359. Bullock woodland. Gunc. frater. 365.

on sun dark grey soil, probably grassland. Locals

*A. frater*

No *Acridids*. 377. New box - bright green

on upper branches, clean, dark grey, bipinnate

on lower ground. bicolor & bullock & frater

*A. cruciata*

392. Kaniva. 396. Open bicolor on sun & comp. patch

on sun some green grass. 395. Return of *leucocylon*



from here to S.A. border. *bicolor*, *lucosylon*, the  
new box & bullock ~~the~~ <sup>chief</sup> ~~the~~ <sup>Community</sup>. The  
from north of Hopetown to the border, should perhaps  
be called the *E. bicolor* - *E. lucosylon* - *E.?* Assoc.  
In the north mallee prevents the appearance  
*lucosylon*, turning up as soon as a rise  
develops. Even in the neighbourhood of Dimboola  
& Whill the highest rises are capped with  
mallee. Beyond Whill mallee is excluded,  
except for a narrow north-south lateritic  
hill bearing a new type of mallee, with very  
numerous shrubs - perhaps more of a *sauopla*  
heath 67414. Bordetown.

*A. vulgaris* ✓

6/12. 4415 Bordetown, 420. *Camadulensis* woodland  
on strongly ~~very~~ dark grey soil, not flooded, mainly  
(18 spec.)  
in poduic grasses. 425. Several mallee, *var. costata*  
[*Eucalyptus incrassata* var. *costata*]  
large & small sclerophyllous shrubs on hard pale  
sandy soil. Cleared & uncleared. No *Acridos*. 420  
*Apotropis* sp.

Small trees, some of mallee form, of two euc. (sp.)  
Numerous kinds of ~~tall~~ large & small shrubs,  
*Goniaca* sp., *Peakesia* sp., *A. frater*, *Uonisa* sp.

*Xanthorrhoea*. 435. Essentially same habitat,

but partly ~~unint~~ <sup>unint</sup> <sup>over</sup>. Probably on additional  
*Coryphistes* sp., *Cirphula* sp., *Uonisa* sp.

stringy (Boadleri?) 440. Essentially same vegetation.

441. Naracoorte 467 Return from N. 487. Same trees



*Urnisa* sp.

as before, but taller & denser. Fewer shrubs, taller  
species of *Lanth.*, bracken. 67492. Camal. sw. <sup>*Apotropis* sp.,</sup> 2 introduced

*Urnisa* sp., *Phaulacridium vittatum*

pasture, dense, bracken towards DSF to left. 497.

*A. cruciata*, *Brachycaena* <sup>very open</sup>

Completely cleared from <sup>h</sup> Camal. sw. Beyond sw to

right is apparently grassland on the flatter country.

At this site bare patches have been created at side  
of road by removal of topsoil. Species collected near

*A. vulgaris* (n)

found here. 502. Prob. still very open Camal. sw, plus

occ. ~~what appear to be~~ trees & a *Camarina*

*Perlocia*, *Brachycaena*, *Phaulacridium vittatum*

(only one seen). 506. Thin pasture with much

hoar, hounds along road. *Phaul.* (n). 508 Naracoorte.

[The bicolor-leucoscyton - E.? Assn. seems to be a  
climatic climax linking up with the E. bicolor  
Assn. in the Narrandera area. Apart from intrusions  
to of poor soils bearing DSF, this assn. is bounded  
to the south by the E. camaldulensis assn, here in  
S.A., & also (see previous Victorian trip) in Victoria.

Both here & in Victoria, the E. camaldulensis assn.  
gives way to grassland when the country flattens  
further, or on basaltic soil (Vic.) It is interesting  
to note that this order, bicolor giving way to  
camaldulensis in a climatic climax as moisture  
increases, is also the order of zonation towards a  
river in drier areas. The assn. on the consolidated



sandridge south of Bodestown is remarkably similar to the *E. haemastoma* - *E. piperita* - *E. guumifera* asss., showing all transitions from normal DSE to scrub forest, although heath was not seen. There should be no difficulty in treating the two asss. in just the same way.]

*Azelota* sp., *Cratilopus* sp., *Perloccia*.

12/12. 67508. Naracoorte. 511. Mallee some broken.

Thinish pasture along road. Brachy. Phaul (n).

*A. vulgaris*

516. Terra rossa on limas tunc. Some bare patches.

Brachy. Phaul (n). Cleared from camaldulensis sw.

*li - tree*

521. Camal. f. sw. Collected partly under trees.

Brachy. 526. Much denser camald. sw. Dense

introduced pasture. Brachy. 531. Terra rossa on limestone

outcrop. Camal. sw. Brachy (n). 536. Cleared from

Camal. sw. No *Acridids*. 541. *Penola*. 544. Camal.

[ 549. Phaul (n). Brachy (n). 550. Cleared from camald. *Utrisa* sp., *Perloccia*, *Moraba* sp., *A. ~~ulgaris~~ <sup>inconata</sup> (n)*, *A. vulgaris* (n), *Oedaleus* (n), *Pseudura* swatters on sandy soil. Various shrubs, rushes, *Cucullata* (n) (R) *pedestris*

broken, grasses, *Xanthorrhoea*. Brachy (n). 555. Low

lying swampy area cleared from camal. Shrub

560.

mainly *Leptospermum* (?) *rostr.* Phaul (n) [Patch of

[*E. ovata* var. *grandiflora*, *E. sp.* near *ovata* var. *grandiflora*, *E. uniuialis* var. *Hubertiana* lucos (3 specimens) with variable amt. of trunk

rough, upper branches at least smooth. Phaul (n)

565. Dense woodland of spp. noted at 560 plus



[E. obliqua var. nigrocarpa]

67570.

Perloccia ~~mitis~~

654. Thunbergia ~~capitata~~ <sup>incubata</sup> (R)  
Utriusa sp., Apotropis sp., Moraba ~~sp.~~ <sup>sp.</sup> ~~capitata~~ (n), ~~sp.~~

~~Antennaria~~ (n) ~~Pardina nana~~ (n)  
~~Propaganda~~ ~~sp.~~ (R)

654-5

A. vulgaris, Brachycaena.

A. vulgaris

[E. viminalis]

A. vulgaris (n).

A. vulgaris



with tall *Acacia* shrubs. *Poa* tussocks. No *Acridid*.

792. Halls Gap. 797. DSF with very small shrubs.

Tanb. 806. *Leucosyphon* (?) *melliodora* (?) usual on

on very hard soil. 810. Stawell. [The road through

the Grampians at first travels in a very

broad valley between the line of *Cuestas*

forming the eastern range, & the mass of

mountains to the west. At about 773 it crosses

the *cuesta* range, at the summit of which

were found the shrubby & *Callitris*, the latter a

shrub fruiting at ca. 3 ft. less than a mile

further on was found the oval-leaved eucalypt

of mallee form, on a north-facing slope. It is

then seen that a second range of more subdued

*Cuesta* form lies immediately to east of the

first. The road runs between these two for

the remainder of the distance to Halls Gap, the

rainfall steadily increasing to that point,

which is located at the head of the valley,

where the two ranges meet. About the second

half of the way to Stawell from Halls Gap

carries a community of *Leucosyphon* - *melliodora*

11/12. 811. Stawell. 812. *Sideroxylon*, small *Callitris*

813. small shrubs. 817. *Leucosyphon*, *microcarpa*.

*A. vulgaris*, *Phacelia* ~~*tridactylon*~~ *nanum* (n).

*Minyarica nana*

*A. cruciata*, *A. pusilla*, "*Brachytona*" (v?)



*A. cruciata*, *A. vulgaris*,  
*A. pusilla*, "*Brachytona*"  
*Phaulacridium vittatum* (2)  
*A. vulgaris*,  
*Leucoscyllon*, *Muelliodora*

Open pasture. *Claris & unclaris*. 822. *Leucoscyllon*. *Muelliodora*.  
*A. frater*  
827. *Vulgaris*, *pusilla*, *Microcarpa* sw 832. *Microcarpa*,  
"*Brachytona*" (Genus nov. 10?) "*Brachytona*", *A. frater*, *A. cruciata*  
*Muelliodora*. 835. Navarre. 837 *Microcarpa*, *Leucoscyllon*,  
*occ. elaeophora* (?) (specimen). *frater* now numerous,  
*vulg.* not seen. *Pusilla*. 842. Green grass shade  
*A. vulgaris*, Genus nov 10(?)  
under *Camaldulensis* along creek. 847. *Microcarpa*  
"*Brachytona*"  
*Muelliodora*; *Camald.* along creek. *Pusilla*. *Vulg.*  
in green grass under *Camald.* 855. *Camald.* cleared  
*A. vulgaris*  
from small creek. "*Brachytona*". 860. St. Bernard.  
*A. cruciata*, *A. vulgaris*  
863. *Muelliodora* in depression. "*Brachytona*". 869. *Microcarpa*  
*A. cruciata*  
*Leucoscyllon*, *Muelliodora*. *Brachytona*, *pusilla*. 875.  
*Microcarpa*; also *Camaldulensis* along creek. *Que.*  
*A. cruciata*  
*Brachytona*. 881. *Camald.* *Microcarpa* *bicolor* in  
depression with green grass. (First appearance of  
*bicolor*) Not sm. 886. Charlton. [From about 817 to 881  
*Microcarpa* is the chief dominant, associated with  
*Leucoscyllon* & *Muelliodora*. The *Leucoscyllon*-*Muelliodora*  
community noted before Staville is probably a Type  
of this. From 881 we are apparently once more in  
the *bicolor*-*Leucoscyllon* community noted further  
west, but there are also stretches of what  
appears to be grassland between belts of trees.]  
12/12. 886. Charlton. 896. *Microcarpa*, *Cruciata*. 907. *Malle*  
*frater*. 918. Very open *Muelliodora* on slightly, sm brown



soil. Green patch. 916. Boob. 916. Bicolor, lucid, glaucous  
bullock, Myoporum. Cruc. frater. 937. Bicolor, occ.  
Myoporum, in depression. Frater. 947. Apparently  
originally grassland on sun bk soil. Now mainly  
annual saltbushes, Bassia, composites & barley grass.  
No Acridids. 949. Kerang, 957. Grassland with widely  
scattered Bicolor. No Acridids - 966. Baram. 976.

Bicolor, Murray pine, Coobah. Cruciata. 988. Grassland  
<sup>A. cruciata</sup>  
Now occupied mainly by annual saltbushes &  
composites. Cruciata more numerous than  
anywhere in Vic. Males larger, more yellow.

998. Bullock woodland & grassland. Annual saltbushes,  
composites, grasses, patches Kochia sp. near  
microphylla. Cruciata numerous - males yellow.

68006. First myall seen. 8008. <sup>A. cruciata</sup> Grassland with  
extensive patches lignum & Bassia Birchia. Cruc.  
numerous. Annual saltbush, composites. 021.  
Denilignum.

13/12. 022. Denilignum. 034. Grassland. Cruc. numerous.  
054. Bicolor. Cruc. numerous. 074. Grassland. Cruc.  
numerous. Chalk (n). 078. Gerillerie. 097. Sandy rise.

<sup>Pyrenostictus seriatus</sup>  
C. glauca, bullock, Hakea, Cruc. 8106. Frater under  
mallee on rise. 113. Urama 116. Melliardoa &  
<sup>A. cruciata</sup>  
C. glauca on rise. 137. Melicarpa, C. glauca, Cruc.



143. Rockhew

A. pusilla

A. pusilla, Phaulacridium vittatum,

157. Musalliana Que 177. Canzot + melleodora along  
depression. Pusilla, Coul., Brachypanna. 199. Bullisdon  
in depression. Green Thistle + dry grass, No Acid.